



Blast 2 Sequences results

PubMed

Entrez

BLAST

OMIM

Taxonomy

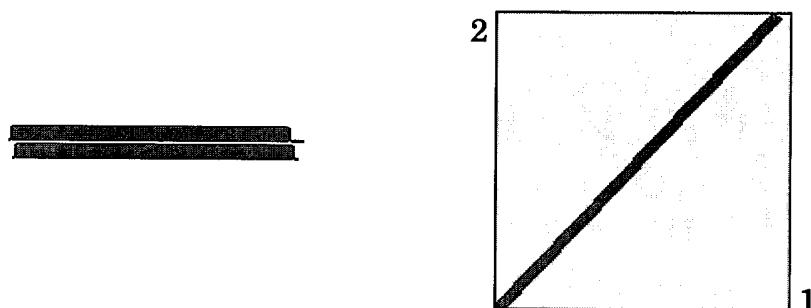
Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTN 2.2.4 [Aug-26-2002]

Match: Mismatch: gap open: gap extension:
 x_dropoff: expect: wordsize: Filter Align

Sequence gi 1 21361113 Homo sapiens solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11 (SLC25A11), mRNA Length 1570 (1 .. 1570)

Sequence gi 2 3387910 Length 1503 (1 .. 1503)



Sequence Alignment

of 21361113 (seq1)
 & 3387910 (seq2)

NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

NOTE: If protein translation is reversed, please repeat the search with reverse strand of the query sequence

Score = 2832 bits (1473), Expect = 0.0
 Identities = 1475/1476 (99%)
 Strand = Plus / Plus

Query: 22 ggcgtgcgcgcgcctcgctctgttgcgcgcgggtgtcaccttggc
 Sbjct: 11 ggcgtgcgcgcgcctcgctctgttgcgcgcgggtgtcaccttggc

Query: 82 gcgcgcgcacgggacccggagccgagggccattgagtgccatggcgg
 Sbjct: 71 gtgcgcgcacgggacccggagccgagggccattgagtgccatggcgg
 2-oxoglutarate carrier protein 1 M A

Query: 142 ccggggccggcggatagacgggaagccccgtaccccttaagtccg
 Sbjct: 131 ccggggccggcggatagacgggaagccccgtaccccttaagtccg
 2-oxoglutarate carrier protein 7 A G A G G I D G K P R T S P K S

Query: 802 tgatcagcggcttgcaccactgctgcctccatgcctgtggacatt
Sbjct: 791 tgatcagcggcttgcaccactgctgcctccatgcctgtggacatt
2-oxoglutarate carrier protein 227 M I S G L V T T A A S M P V D I

Query: 862 tccagaacatgcggatgattgatggaaagccgaaatacagaacggc
Sbjct: 851 tccagaacatgcggatgattgatggaaagccgaaatacagaacggc
2-oxoglutarate carrier protein 247 I Q N M R M I D G K P E Y K N G

Query: 922 tcaaagggtccgtacgagggtttcagcctgtggaaagggttc
Sbjct: 911 tcaaagggtccgtacgagggtttcagcctgtggaaagggttc
2-oxoglutarate carrier protein 267 F K V V R Y E G F F S L W K G F

Query: 982 cccgcctggccccacaccgtccacccatcttcttgaggcaga
Sbjct: 971 cccgcctggccccacaccgtccacccatcttcttgaggcaga
2-oxoglutarate carrier protein 287 A R L G P H T V L T F I F L E Q

Query: 1042 acaagggtctttccctcagtggtgaagcggccggggctccactcg
Sbjct: 1031 acaagggtctttccctcagtggtgaagcggccggggctccactcg
2-oxoglutarate carrier protein 307 Y K R L F L S G ^^^

Query: 1102 atagccactgcgcctggggcctgggtctgtgcctggaccctc
Sbjct: 1091 atagccactgcgcctggggcctgggtctgtgcctggaccctc

Query: 1162 ttccacagtgtggttttccctgcgttaaggacttggctgttct
Sbjct: 1151 ttccacagtgtggttttccctgcgttaaggacttggctgttct

Query: 1222 agcttgcctgctcgtccgtatccctgtgattctgtgcctggctat
Sbjct: 1211 agcttgcctgctcgtccgtatccctgtgattctgtgcctggctat

Query: 1282 ctggaaaacttcctgaggattctggccctccctgggttttagttc
Sbjct: 1271 ctggaaaacttcctgaggattctggccctccctgggttttagttc

Query: 1342 acagcagaagatccccttgtcagtggggaaaccaaggcagagctgag
Sbjct: 1331 acagcagaagatccccttgtcagtggggaaaccaaggcagagctgag

Query: 1402 agcagaagccatcaagatggtaaaggcctgcagagggagatgtggc
Sbjct: 1391 agcagaagccatcaagatggtaaaggcctgcagagggagatgtggc

Query: 1462 tcattgaggacttaataaattggattgatgacacca 1497
Sbjct: 1451 tcattgaggacttaataaattggattgatgacacca 1486

CPU time: 0.08 user secs. 0.03 sys. secs 0.11 total secs.

Lambda K H
1.33 0.621 1.12

Gapped
Lambda K H
1.33 0.621 1.12

Matrix: blastn matrix:1 -2
Gap Penalties: Existence: 5, Extension: 2
Number of Hits to DB: 8
Number of Sequences: 0
Number of extensions: 8
Number of successful extensions: 1
Number of sequences better than 10.0: 1
length of query: 1570
length of database: 7,833,321,048
effective HSP length: 25
effective length of query: 1545
effective length of database: 7,833,321,023
effective search space: 12102480980535
effective search space used: 12102480980535
T: 0
A: 0
X1: 6 (11.5 bits)
X2: 26 (50.0 bits)
S1: 12 (23.8 bits)
S2: 21 (41.1 bits)



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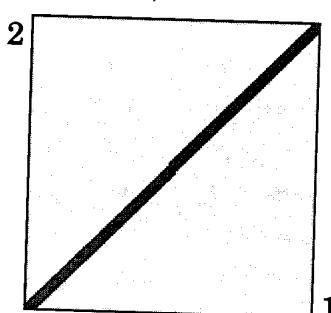
Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTP 2.2.4 [Aug-26-2002]

Matrix **BLOSUM62** gap open: **11** gap extension: **1**
 x_dropoff: **50** expect: **10.00** wordsize: **3** Filter Align

Sequence 1 lcl|seq_1 Length 314 (1 .. 314)

Sequence 2 lcl|seq_2 Length 314 (1 .. 314)



NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

Score = 622 bits (1603), Expect = e-177
 Identities = 314/314 (100%), Positives = 314/314 (100%)

Query: 1 MAATASAGAGGIDGKPRTPKSVKFLFGGLAGMGATVFVQPLDLVKNRMQLSGEGAKTRE 60
 Sbjct: 1 MAATASAGAGGIDGKPRTPKSVKFLFGGLAGMGATVFVQPLDLVKNRMQLSGEGAKTRE 60

Query: 61 YKTSFHALTSILKAEGLRIYTGLSAGLLRQATTTTRLGIYTVLFERLTGADGTPPGFL 120
 Sbjct: 61 YKTSFHALTSILKAEGLRIYTGLSAGLLRQATTTTRLGIYTVLFERLTGADGTPPGFL 120

Query: 121 LKAVIGMTAGATGAFVGTPAEVALIRMTADGRLPADQRRGYKNVFNALIRITREEGVTL 180
 Sbjct: 121 LKAVIGMTAGATGAFVGTPAEVALIRMTADGRLPADQRRGYKNVFNALIRITREEGVTL 180

Query: 181 WRGCIPTMARAVVNAALASYSQSKQFLDSGYFSDNILCHFCASMISGLVTTAASMPV 240
 Sbjct: 181 WRGCIPTMARAVVNAALASYSQSKQFLDSGYFSDNILCHFCASMISGLVTTAASMPV 240

Query: 241 DIAKTRIQNMRMIDGKPEYKNGLDVLFKVVRYEGFFSLWKGFTPYYARLGPTHVLTFIFL 300
 Sbjct: 241 DIAKTRIQNMRMIDGKPEYKNGLDVLFKVVRYEGFFSLWKGFTPYYARLGPTHVLTFIFL 300

Query: 301 EQMNKAYKRLFLSG 314
 Sbjct: 301 EQMNKAYKRLFLSG 314

Alignment of one record by NM_003562 (seq1)
 and AF070548 (seq1nor)

100% match

1/28/03

CPU time: 0.09 user secs. 0.02 sys. secs 0.11 total secs.
Lambda K H
0.323 0.138 0.404

Gapped
Lambda K H
0.267 0.0410 0.140

Matrix: BLOSUM62
Gap Penalties: Existence: 11, Extension: 1
Number of Hits to DB: 1236
Number of Sequences: 0
Number of extensions: 82
Number of successful extensions: 9
Number of sequences better than 10.0: 1
Number of HSP's better than 10.0 without gapping: 1
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 0
Number of HSP's gapped (non-prelim): 1
length of query: 314
length of database: 422,818,587
effective HSP length: 126
effective length of query: 188
effective length of database: 422,818,461
effective search space: 79489870668
effective search space used: 79489870668
T: 9
A: 40
X1: 16 (7.5 bits)
X2: 129 (49.7 bits)
X3: 129 (49.7 bits)
S1: 41 (22.0 bits)
S2: 74 (33.1 bits)